

Bosch Recording Station



BOSCH

en Operating Manual

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1 Program Start/Login

1.1 Starting the Program

When installation is complete, you can start the program.

1. Switch on the computer and wait until the desktop interface appears.
2. Double-click the Bosch Recording Station icon on your desktop or select **Start > All Programs > Bosch Recording Station**. The computer starts the program and displays the login dialog box.

1.2 Logging on to the System

When the program has started, the dialog box for logging on to the system appears. The dialog box will have a different appearance, depending on whether you have logged on with or without LDAP access.

1.2.1 Logging on to the System (Standard)

For systems that are not connected to an LDAP server, only the name and password will be required.

1. Enter your user ID in the name input field.
2. Enter your password in the password input field.
3. Click **OK**. You are now in live mode.

1.2.2 Logging on to the System with LDAP Access

For systems that are connected to an LDAP server, an additional selection field will be displayed.

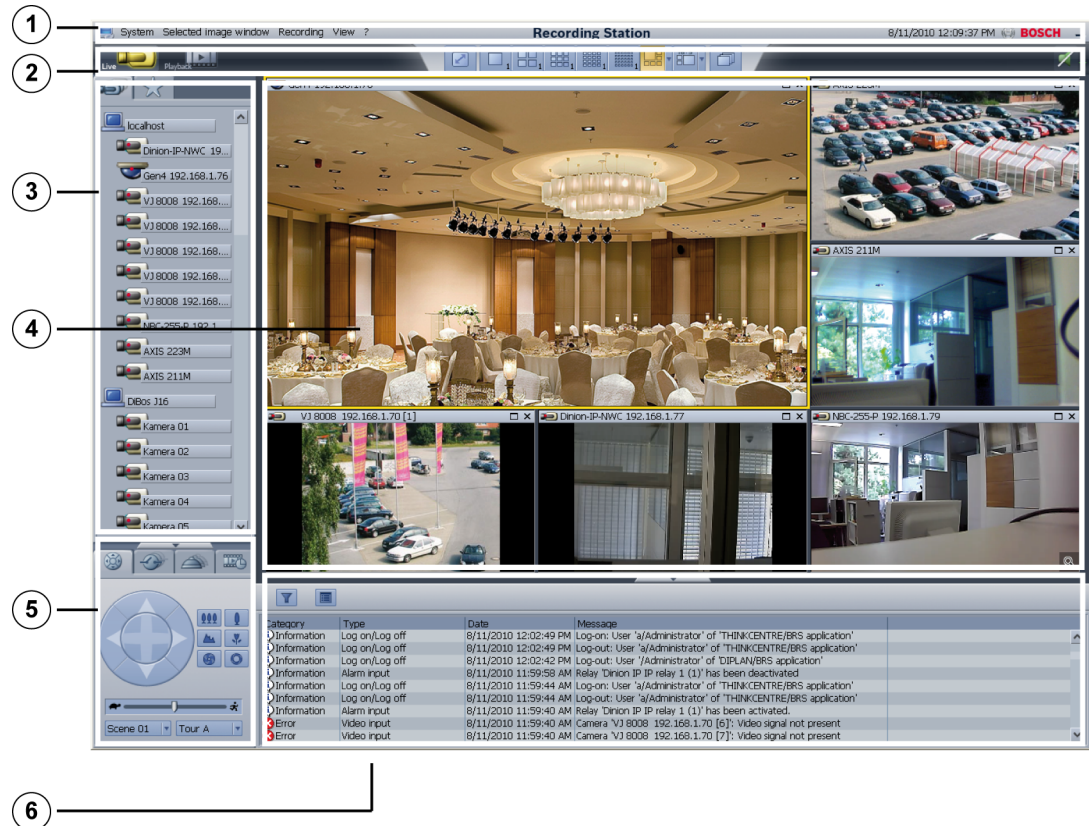
1. Enter your user ID in the name input field.
2. Enter your password in the password input field.
3. Click the down arrow and select the LDAP server if you wish to log on via LDAP. To log on locally, the local system must be selected.
4. Click **OK**. You are now in live mode.

2 The User Interface

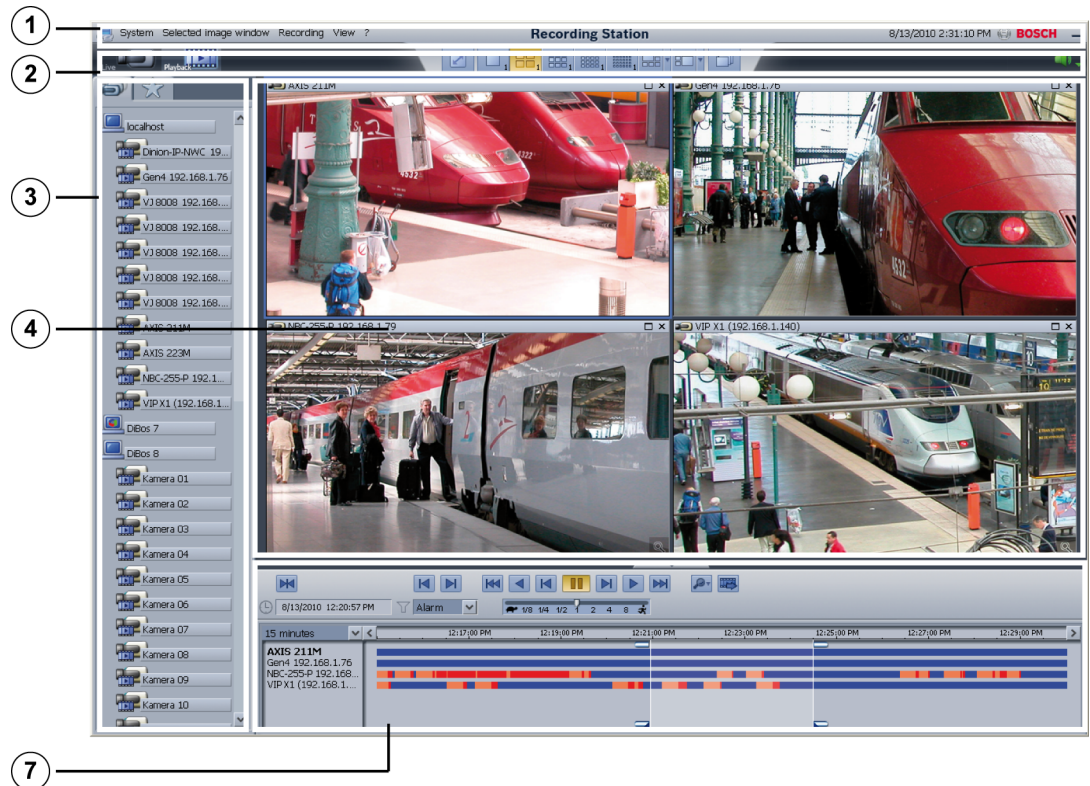
You will automatically access live mode every time the system is re-started and every time you log on. You can look at live images from selected cameras in this mode.

It is possible to switch quickly to playback mode and back by clicking the respective button on the menu bar.

Live mode



Playback mode



1	Menu bar with current date and time (see Section 2.1 The Menu Bar (live mode))
2	Display bar (see Section 2.3 The display bar)
3	Device list with cameras and remote stations (see Section 2.4 The device list)
4	Image area with image windows (see Section 2.5 The image area)
5	Control and status field (see Section 2.6 The control and status field (live mode only))
6	Event field (see Section 2.7 The Event Field)
7	Timeline area and search results (see Section 2.8 The timeline area)

2.1 The Menu Bar (live mode)

The menu bar has the following functions:

System	
Configuration wizard	Helps you to create a basic system configuration quickly.
Configuration	Displays the configuration.
Database information	Displays information on the cameras, for example free and used memory, average image size etc. It is displayed for the local system and for configured and connected remote stations.
Logbook	Displays specific events in the local system or a remote station.
Image comparison...	Opens a dialog field for comparing a current camera image with a comparison image for this camera.
Logging Off/Changing User	Logs the user off the system. The system continues running in the background. A different user can log on.
Change password	The existing password is changed when a new password is entered.
Exit	Exits the program (administrator rights necessary).

Selected image window	
Save image	Saves the image displayed in the selected image window. It can be saved as an HTML, BMP, JPG, GIF, TIF or PNG file. If it is saved as a HTML file, the additional data is also saved.
Print image	Prints the image displayed in the selected image window (including the additional data).
Motion data	Shows the areas where a motion was detected in the selected image window. To hide it, repeat the command. Note: It is only possible to search for motion with locally connected cameras.

View	
Large icons	Displays the icons in the device list in large format. To reduce their size, repeat the command.
Large image area	Enlarges the image area and reduces the size of the event field. To reduce the size of the image area, select the command again.
Large device list	Enlarges the device list and reduces the size of the control and status field. To reduce the size of the device list, select the command again.
Display local time	Shows the actual recording date and recording time of the device to which the cameras are connected.

?	
Help	Displays online help.
Info	Displays system information.

2.2 The Menu Bar (playback mode)

The menu bar has the following functions.

System	
Configuration wizard	Helps you to create a basic system configuration quickly.
Configuration	Displays the configuration.
Database information	Displays information on the cameras, e.g. used and free memory, average image size etc.
Logbook	Displays specific events in the local system or a remote station.
Image comparison...	Opens a dialog field for comparing a current camera image with a comparison image for this camera.
Logging Off/Changing User	Logs the user off the system. The system continues running in the background. A different user can log on.
Change password	The existing password is changed when a new password is entered.
Exit	Exits the program (administrator rights necessary).

Selected image window	
Save image	Saves the image displayed in the selected image window. It can be saved as a BMP, JPG or HTML file. If it is saved as a HTML file, the additional data is also saved.
Print image	Prints the image displayed in the selected image window (including the additional data).
Image properties	Displays the properties of the selected image, e.g. recording time, image size, image compression, authentication. Properties are displayed directly below the image.
Motion data	Shows the areas where a motion was detected in the selected image window. To hide it, repeat the command. Note: It is only possible to search for motion with locally connected cameras.
Additional data	Shows additional data in the selected image window under the camera image. To hide it, repeat the command.
Authenticate	Checks whether the image in the selected image window has been changed. Only the displayed image is checked.
Searching for motion	Checks the motion information for the image in the selected image window. You can enter a time period and select the image areas. Note: It is only possible to search for motion with locally connected cameras.

Recording	
Export video	Exports video and audio data to a CD/DVD drive, a network drive or a USB drive. The files are exported in Bosch Recording Station or ASF format. When data is exported in Bosch Recording Station format, the Bosch Export Viewer can also be saved. Administrator rights are necessary for installing the Bosch Export Viewer. Only user rights are necessary for playback. The Bosch Export Viewer can run on all Windows XP and Windows 7 systems. Data which has been exported in ASF format can be played with default software, e.g. Windows Media Player.
Load exported video	Shows exported data.
Hide exported video	Hides exported data.
Authenticate video	Checks the images from all cameras displayed in the image area to see whether they have been changed. The time period can be entered or highlighted with the hairline in the timeline area.
Search for additional data of displayed cameras	Searches the saved images from all cameras displayed in the image area for additional data, e.g. for ATM data. The time period can be entered or highlighted with the hairline in the timeline area.
Search for additional data from all cameras	Searches the saved images from all local cameras and all cameras that are connected via remote network stations for additional data, for ATM data for example. The time period can be entered or highlighted with the hairline in the timeline area.
Protect video	When the selection has been made, a dialog box is displayed. In this dialog box, you must enter the time period during which saved images cannot be overwritten. Only images from an entire day can be protected. Note: This function relates to all cameras that are displayed in the image area.
Recording: remove protection	When the selection has been made, a dialog box is displayed. In this dialog box, you must enter the time period during which write protection on saved images is removed. Write protection can only be removed from images from an entire day. Note: This function relates to all cameras that are displayed in the image area.
Delete video	When the selection has been made, a dialog box is displayed. In this dialog box, you must enter the time period during which the saved images are deleted. Only images from an entire day can be deleted. Note: This function relates to all cameras that are displayed in the image area.

View	
Large icons	Displays the icons in the device list in large format. To reduce their size, repeat the command.
Large image area	Enlarges the image area and reduces the size of the event field. To reduce the size of the image area, select the command again.
Display local time	Shows the actual recording date and recording time of the device to which the cameras are connected.

?	
Help	Displays online help.
Info	Displays system information.

2.3 The display bar

The display bar contains the following buttons:



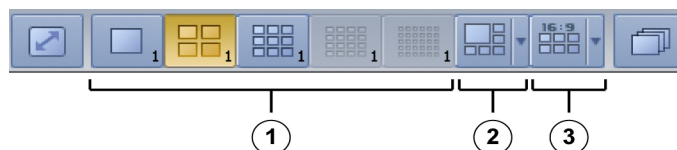
2.3.1 Buttons for Live and Playback Mode

	Button for live mode
	Button for playback mode

2.3.2 Button for full image

	Enlarges the image area to full image size. To return to the original image display, press the ESC key or double-click the right mouse button.
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2.3.3 Buttons for Image Display



The individual buttons show how many image windows are displayed in the image area.

- ① Aspect ratio 4:3
 - When these buttons are selected, the image area is divided into image windows of equal size.
- ② Aspect ratio 4:3
 - Click the down arrow to show the individual views.

Note: The most recently used view is copied to the display bar.



- 3

 Aspect ratio 16:9
This button allows you to optimize the image area for wide-screen displays. Click the down arrow to show the individual views.

Note: The most recently used view is copied to the display bar.



1 image window is selected in every display you select. The display you select appears with a yellow border. The image from the camera which you select from the device list by double-clicking is shown in this image window.

The number to the right beneath the button shows the user how often he has already clicked this button. This number also shows which cameras have been selected or which cameras will be selected the next time the user clicks this button.

Example:
With 12 cameras and 2x 2-image windows this means:
You can click the button three times to display all cameras.

	Cameras 1 to 4 are displayed (the number "1" appears on the right beneath the button).
	Cameras 5 to 8 are displayed (the number "2" appears on the right beneath the button).
	Cameras 9 to 12 are displayed (the number "3" appears on the right beneath the button).

2.3.4

Button for camera round

	A dialog box opens after the button is clicked. Enter the time after which the system will switch from one camera to the next. During the camera round, all cameras selected in the image area are displayed one after the other. Note: Clicking the button again ends the camera round.
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2.3.5

Button for Switching the Sound On and Off

	Clicking this button switches the sound on or off. To adjust the volume, click the down arrow.
	Select the volume you require with the volume control.

2.4 The device list

The device list is located on the left-hand side of the screen. Depending on what is selected, the following are displayed:

- Configured cameras and/or Bosch Recording Stations
- Favorites view
- Incoming alarms.
- Shows exported data (playback mode only)



Configured cameras and/or Bosch Recording Stations

All locally connected cameras are listed.

If remote stations have been configured, they are listed along with the cameras connected to them.

Network remote stations are automatically connected to the local system.



- **Bosch Recording Station** (localhost or remote station)

Right-click the icon to call up the following commands:

Connect

Creates the connection to the Bosch Recording Station.

Disconnect

Disconnects the connection to the Bosch Recording Station. The Bosch Recording Station remains disconnected (even after a reboot) until it is reconnected manually.

RAS remote stations must likewise be connected manually.

Configuration

With localhost: the default configuration opens.

With remote stations: the configuration opens in remote mode.

Display all cameras

Displays all the Bosch Recording Station cameras in the image area.



Favorites view

Favorites which have been saved are listed and can be called up by double-clicking the icon. New favorites can be created.

Note: Favorites are a number of cameras that are displayed in a specific way, e.g. cameras 1 - 4 in the 2x2 image window view.



Incoming alarms

The icon flashes red after alarms have been received in the system. The icon is only displayed if there are alarms in the system.



Showing exported data (playback mode only)

The icon is only displayed if exported data is shown.

Automatic display of alarm cameras

Automatic display of alarm cameras can be configured.



The  tab flashes red and the alarm cameras are displayed. An audio signal sounds, if this has been configured.

Automatic alarm recording

Incoming alarms can be recorded automatically (standard) or manually on the recipient. The selection is made in the configuration. In both cases, all cameras that are allocated to the alarm in the device list are recorded. Recording takes place without audio.

The  tab flashes red.

Enlarging and Reducing the Size of the Device List

Click the bar between the device list and the control and status field.

	Reduces the size of the device list
	Enlarges the device list

Note:

For icons shown in the device list, see *Section 4 The Icon Overview*.

2.5 The image area

The middle and right-hand side of the screen is where images that have been saved are displayed.

Arrange this area to suit your requirements.

2.5.1 Image Area Layout

Specify the number and layout of image windows in the image area

In the display bar, you can specify what the image area looks like, i.e. the number and layout of the image windows (see *Section 2.3.3 Buttons for Image Display*).



Placing individual cameras in the image area

After selecting the image display, you will now want to display specific cameras.

You can do so as follows:

- Placing by double-clicking
Double-clicking a camera icon in the device list places the camera in the selected image window (with the yellow border).
Left-click with the mouse to select a different image window. Double-clicking a different camera icon places its image in the new image window that you have just selected.
- Placing by "Drag and Drop"
Press and hold the left mouse button and drag the camera icon from the device list into an image window. Release the mouse button and the image of this camera appears in the image window.

Note:

In the image area, each camera can only be displayed once.

Move cameras within the image area

In a multiple-image display, you can move cameras within the image area.

To do so, move the mouse cursor into the title bar of an image window, press and hold the left mouse button and drag the camera into a different image window. Release the mouse button and the image of this camera appears in the image window.

Enlarge and reduce the size of the image area

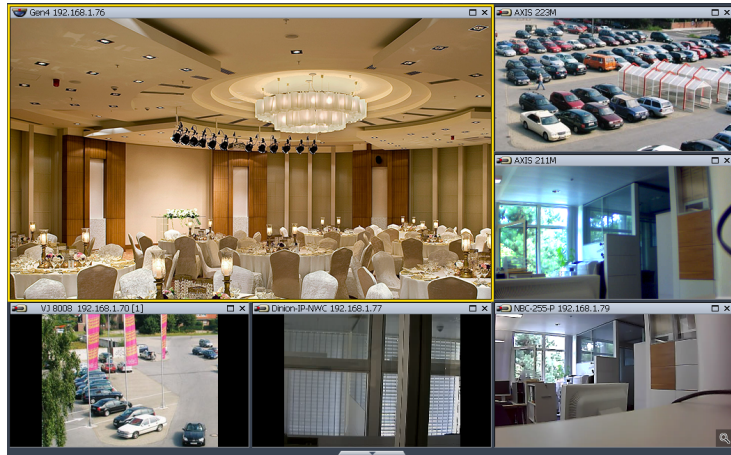
Click the bar beneath the image area.

	Reduces the size of the image area.
	Enlarges the image area.

2.5.2

The image window

Depending on which button is selected in the display bar for the image area layout, the image area will be divided into one or several image windows.



The selected image window appears with a yellow border in live mode and a blue border in playback mode. The image from the camera which you select from the device list by double-clicking is shown in this image window. If an audio source has been assigned to the camera, this is also selected. If a user is authorized to view live or saved images, he is also authorized to listen to an audio recording which accompanies these images.

In addition to the camera image display, each image window has a title bar with information and buttons about the image, as well as a zoom function.

The image window title bar

The title bar contains

- an icon describing the type of camera (see *Section 4 The Icon Overview*)
- the name of the camera
- an icon which indicates whether the image also has an audio source
 -  : Camera with audio source/audio recording
- an icon that displays the motion in the sensitive area of the image (in live mode)
 -  : The system recognizes motion in the sensitive area of the image. This will only be displayed if the camera's sensor technology has been activated in the configuration.
- Buttons for enlarging, minimizing and de-selecting the image.
 -  : The image window is enlarged so that it fills the entire image area.
 -  : The image window is reduced to its original size.
 -  : The camera is deselected. No camera image is displayed. The image window is blue.

Image window zoom function

Every single image window has a zoom function. To use this function, move your mouse cursor into an image window. The mouse cursor now changes from an arrow into a magnifying glass.

	Using the zoom function with fixed cameras: Left-click or scroll with the mouse wheel. The image is digitally zoomed. In order to show that an image has been zoomed, a magnifying glass is shown in the bottom right-hand corner of the image window. Right-click or scroll with the mouse wheel. The image is reset to the original size. The magnifying glass in the bottom right-hand corner of the image window disappears. Note: The part of the image where the magnifying glass is located is zoomed.
	Using the zoom function with dome cameras and pan/tilt cameras (live mode only): Dome and pan/tilt cameras can be zoomed in the image window using their own control functions. To do this, move the cursor into the middle of the image window until a magnifying glass appears with a plus or minus sign. Left click with the mouse or scroll with the mouse wheel to enlarge or minimize the area.

2.6 The control and status field (live mode only)

The control and status field is located on the left side of the screen. Depending on what is selected, the following are displayed:

	The control field for dome cameras and pan/tilt cameras is displayed (see <i>Section 2.6.1 Control field for dome cameras and pan/tilt cameras</i>).
	The configured relays are displayed (see <i>Section 2.6.2 Displaying the relay</i>).
	The configured alarm inputs are displayed (see <i>Section 2.6.3 Displaying the alarm inputs</i>).
	Instant playback is started (see <i>Section 2.6.4 Instant Playback</i>).

2.6.1 Control field for dome cameras and pan/tilt cameras

After you have selected the  tab, the control field for dome cameras and pan/tilt cameras is displayed.

The control field will not be active until a dome camera and pan/tilt camera is displayed in the selected image window. The individual elements are highlighted when you move over them with the mouse cursor.

If no dome camera or pan/tilt camera has been selected, the control field is inactive.



	Pan the camera to the left/right.
	Pan the camera up/down.
	Pans the camera in all directions. Move the mouser cursor to the icon and drag it in the direction you would like to pan the camera while holding down the left mouse button.
	Reduces (tele)/enlarges (wide angle) the image angle
	Focus far/focus near (sets the image so it is in focus)
	Close iris/open iris
	Sets the pan, tilt and zoom speed.

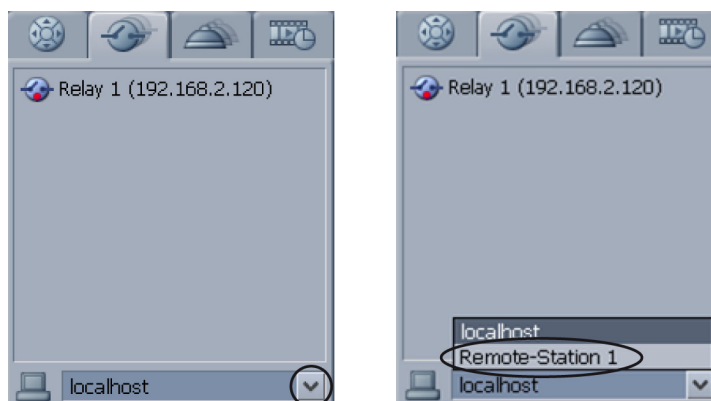
 (on left)	Camera positions which have been set can be called up. To do so, click the down arrow and make your selection.
 (on right)	Camera commands which have been saved can be called up. To do so, click the down arrow and make your selection.

Note:

It is also possible to control these functions in the image window.

2.6.2**Displaying the relay**

After selecting the  tab, all locally configured relays and their statuses are displayed. If remote stations have been configured, a selection field appears in the lower area. Click the down arrow and select the remote station to list the relays that are connected to it.



The relays can be activated or deactivated as follows:

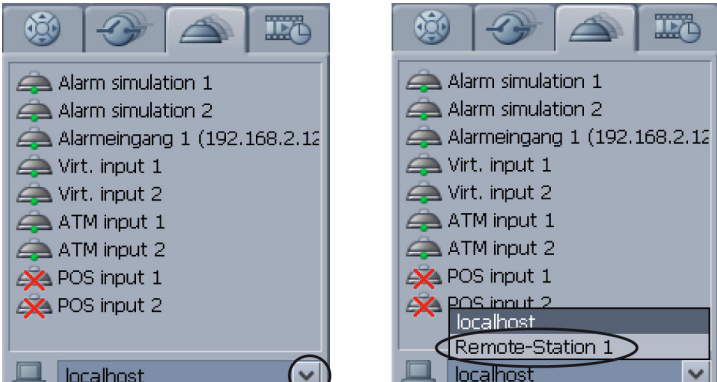
- Double-click with the left mouse button on the relay icon
- or
- Right-click and select the **Activate/Deactivate** command

	The relay is inactive.
	The relay is active.

2.6.3 Displaying the alarm inputs

After selecting the  tab, all locally configured alarm inputs and their statuses are displayed.

If remote stations have been configured, a selection field appears. Click the down arrow and select the remote station to list the alarm inputs that are connected to it.

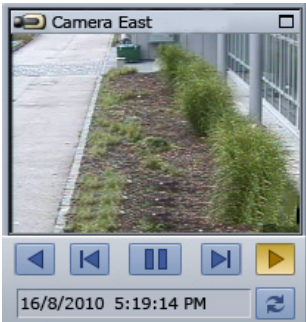


Note:

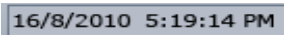
Alarm simulation inputs can be activated/deactivated by double-clicking or right-clicking.

2.6.4 Instant Playback

After selecting the  tab, the images which have been saved in the selected camera are played back instantly as live images. This means you will see the live image from the camera and the image saved from this camera about 30 seconds ago. Playback is in real time. The time delay is set in the configuration.

Display in control and status field	Enlarged display
	

 Camera East	Name of the camera
	Enlarges the image. The image is displayed in a window which can be moved and whose size can be changed.
	Reduces the size of the image (icon is located in the top right-hand corner of the enlarged image).
	Play reverse (real time)

	Single image backward
	Pause
	Single image forward
	Play forward (real time)
	Slider for changing the playback speed with enlarged display. For an explanation of the icons, see <i>Section 2.8.9 Changing the Playback Speed</i> .
	Time at which the playback occurs. You can start playback in the enlarged display at any time. Just click day, month, year, hour, minute or second and enter the time you want. Confirm the entries with Enter . The image taken at this time will be displayed.
	Playback starts at the configured time. The value which has been set in the configuration is used, i.e. there is a 30-second time delay between playback and the live image.

Note:

If a camera is not recording any images, a black image is displayed in the instant playback window.

2.7 The Event Field

The event field is located directly beneath the image area.

The event field contains:

- an event list.
- a button for filtering these events.
- a button for displaying the logbook.

Enlarging or reducing the size of the event field

If the event field has been reduced in size, the event list only contains one message.

	Reduces the size of the image area and enlarges the event field.
	Enlarges the image area and reduces the size of the event field.

2.7.1

The Event List

The 100 most recent events are listed in an event list in the event field. If the list contains more entries than can be displayed on the screen, you can scroll up and down using the mouse wheel or the bar on the right-hand side.

Sorting the list

Entries are displayed with **Category**, **Type**, **Date** and **Message**. You can also sort by these criteria.

Left-click a field in the title bar, e.g. **Category**. An arrow appears on the right-hand side of the field.



An arrow in the title bar field shows the criterion by which the entries have been classified. The direction of the arrow—upward or downward—shows whether the column has been sorted in ascending or descending order. You can switch between ascending and descending order by clicking with the mouse.

	The column is classified in ascending order. Note: It is only when the Date column is sorted in ascending order that the latest events appear right at the top of the list.
	The column is classified in descending order.

Changing the sequence of columns

Hold down the left mouse button to drag a title bar field to the required position in the title bar. Release the mouse button and the field is inserted in this position.

Changing the column width

Click the dividing line between the columns until a cross with arrow heads pointing left and right appears. Hold the left mouse button down and move this cross to the right or left. The column width is changed.

	Moving the arrowhead to the left or right changes the column width.
---	---

2.7.2

Button for Filtering the Events

You can filter the list by certain criteria such as start and shutdown operations, inputs, cameras etc. in order to get a quick overview of which events are in the list. After filtering the list, only those events that match the criteria you have selected will be displayed.



Calls up the filter dialog box.

2.7.3

Button for Displaying the Logbook

You can use this function to search for specific events in the local system or in a remote station, such as start and shutdown operations, log-in and log-out operations, inputs, cameras, system messages, export video procedures, image comparison and configuration operations. The logbook contains up to 250,000 entries.



Calls up the logbook.

2.8.1

Camera List with Timeline/List of Search Results

The display in this area depends on whether the tab for displaying the camera list with timeline or the tab for displaying the search results has been selected.

	Displays a camera list with timeline for every camera in the image area.
	Displays a list of the search results. Only after a search has been performed will you get the tab which shows you whether search results are available or not.

2.8.2

Camera list with timeline

(the  tab must be selected)

A camera list with timeline is displayed for every camera in the image area.

The timeline contains the following information:

Alarm recording	Red
Continuous recording	Blue
No video signal	Black
Protected data	Shading
Audio data available	Thin green line above the timeline
No recording	Light blue

As well as giving information on the type of recording and the date, the timeline can also be used to select a time period or a point in time.

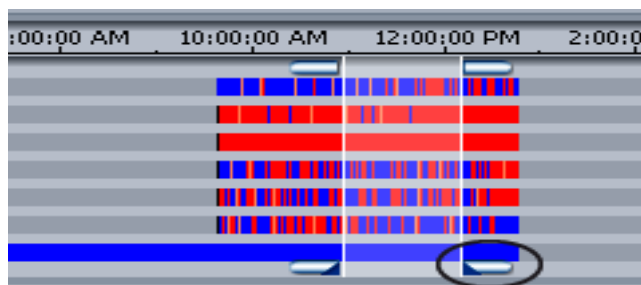
Selecting a time period using the timeline's hairline

(the  tab must be selected)

You can select a time period in the timeline using the hairline.

This selection is necessary when carrying out the following actions:

- Search for motion (see *Section 3.11 Searching for motion*)
- Search for additional data (see *Section 3.12 Searching for additional data*)
- Export files (see *Section 3.15 Exporting Files*)
- Authenticate images from several cameras (see *Section 3.13 Authenticating images from several cameras*)
- Protect video (see *Section 3.17 Protect video*)
- Recording: remove protection (see *Section 3.18 Recording: remove protection*)
- Delete video (see *Section 3.19 Delete video*)

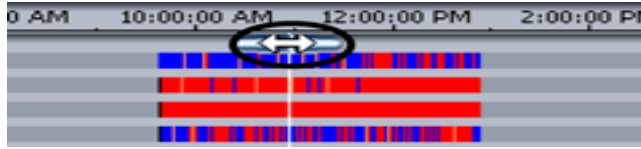


Move the mouse cursor to the bottom anchor of the hairline and drag it to the required time period.

Selecting a time using the timeline's hairline

(the  tab must be selected)

You can access a specific time in the timeline via the hairline.



Move the mouse cursor to the top anchor of the hairline and drag it to the required time. The images which have been found are displayed in the image area.

Note:

Left-click the timeline to position the hairline in that location.

2.8.3

List of search results

(the  tab must be selected)

After a search has been performed, a list of the search results is displayed. Double-clicking with the left mouse button on a search result shows the image sequence in the selected image window.

A click with the left mouse button selects the entry. This selected entry can be exported to a data carrier (see *Section 3.15 Exporting Files*).

2.8.4

Timeline Measuring Unit/Search Results Title Bar

The display in this area depends on whether the tab for displaying the camera list with timeline or the tab for displaying the search results has been selected.

Changing the measuring unit of the timeline

(the  tab must be selected)

You can set four different measuring units - 1 month, 1 day, 4 hours, 15 minutes.



Click the down arrow (on left) and select the measuring unit.

Navigating in the timeline (forward and backward):

- Use the right and left arrows
- or
- Place the mouse cursor on the line and scroll with the mouse wheel

The search results title bar

(the  tab must be selected)

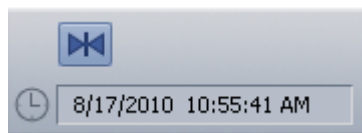
Start	End	Camera	Remote station	
8/17/2010 10:58:51 AM	8/17/2010 10:58:51 AM	Kamera 01	DIBOS8-J16	
8/17/2010 11:00:35 AM	8/17/2010 11:00:38 AM	Kamera 01	DIBOS8-J16	

Search results can be sorted. The column width and sequence can be changed.

2.8.5

Date and time

The saved images can be searched according to date and time (see *Section 3.9 Searching for date and time*).



	The hairline is positioned in the timeline area.
8/17/2010 10:55:41 AM	Displays the date of the selected image window.

2.8.6

Searching for a Previous or Next Event

Using the arrow keys, jump to the next or previous saved event from the cameras displayed (see *Section 3.10 Searching for events*).



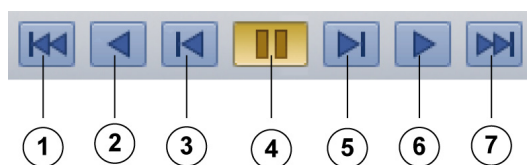
The following events are available:

- Alarm
- Motion
- Video loss
- Continuous recording
- Protected

2.8.7

The recorder buttons

The recorder buttons are used to play back the saved image sequences. In multiple-image display, the images are played back in all image windows simultaneously. If a user is authorized to view saved images, he is also authorized to listen to an audio recording which accompanies these images.



1	Jump to the start of the recording
2	Play video in reverse in real time or at changed speed. The speed is set with the speed controller. Note: This function is not available if more than 4 cameras are displayed in the image area.
3	Single image reverse Note: This function is not available if more than 4 cameras are displayed in the image area.
4	Pause
5	Single image forward

6	Play forward in real time or at changed speed. The speed is set with the speed controller. Note: Audio playback is in real time mode.
7	Jump to the end of the recording.

2.8.8

Reducing the size of/enlarging the timeline area

Click the bar above the timeline area.

	Reduces the size of the image area and enlarges the timeline area.
	Enlarges the image area and reduces the size of the timeline area.

When reducing the size of the timeline area the events saved from the cameras displayed appear on a single timeline. If events overlap, they are displayed in the following order:

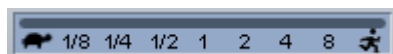
Priority 1	No camera signal
Priority 2	Alarm recording
Priority 3	Motion recording
Priority 4	Continuous recording
Priority 5	No recording

2.8.9

Changing the Playback Speed

Hold down the left mouse button and drag the slide control to the left to reduce the playback speed. Dragging the slide control to the right will increase the playback speed.

You can also rotate the mouse wheel to change the playback speed. The mouse cursor must be positioned directly over the slide control bar.



	Play back at 1/16 of the recording speed
1/8	Play back at 1/8 of the recording speed
1/4	Play back at 1/4 of the recording speed
1/2	Play back at 1/2 of the recording speed
1	Playback speed = recording speed
2	Play back at double the recording speed
4	Play back at four times the recording speed
8	Play back at eight times the recording speed
	Playback of I-frames (maximum playback speed)

2.8.10 Calling up the search functions

	Click the down arrow to allow the following search functions to be selected.
Searching for motion	Opens a dialog box. In the Search for motion function, the image in the selected image window can be checked for motion (see <i>Section 3.11 Searching for motion</i>).
Search displayed cameras	Searches the saved images from all cameras displayed in the image area for additional data, e.g. for ATM data (see <i>Section 3.12 Searching for additional data</i>).
Searching all cameras	Searches the saved images from all local cameras and all cameras that are connected via remote network stations for additional data, for ATM data for example (see <i>Section 3.12 Searching for additional data</i>).

The search results are displayed in the lower part of the screen. An additional tab  is shown in the bottom right of the screen.

2.8.11 Exporting Image Data

	Exports video and audio data to the following drives: – A CD/DVD drive (local or on a remote station) – A network drive (local or on a remote station) – A USB drive (local or on a remote station) The files are exported in Bosch Recording Station or ASF format. When data is exported in Bosch Recording Station format, the Bosch Export Viewer can also be saved. Administrator rights are necessary for installing the Bosch Export Viewer. Only user rights are necessary for playback. Data which has been exported in ASF format can be played with default software, e.g. Windows Media Player. Individual search results or selected time periods can be exported. Note: Only one search entry can be exported at a time. If you have to export more than one entry, repeat the process.
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3 Operation

3.1 Displaying incoming alarms

Incoming alarms of cameras can be displayed automatically or non-automatically.

3.1.1 Non-automatic display of incoming alarms

On the user interface >  or 

When incoming alarms are received, a red flashing tab  is added to the device list. An audio signal sounds, if this has been configured.

1. Select the tab. The cameras or remote stations in alarm status are listed. The audio signal is switched off.
2. Double-clicking on the camera icon shows the image in the selected window of the image area. The image can be displayed in any window of your choice by using "Drag and Drop".
3. By right-clicking the remote station icon, you can acknowledge the alarm, delete the alarm or display all cameras that are in alarm status.

Acknowledge alarm	Acknowledges the alarm. The flashing tab becomes static.
Delete alarm	Deletes the remote station from the device list.
Display all alarms	Displays all alarms in the image area. The system automatically selects the best type of display.

Note:

The incoming alarms are saved in the logbook.

3.1.2 Automatic Display of Incoming Alarms

On the user interface >  or 

When incoming alarms are received, a red flashing tab  is added to the device list. The cameras or remote stations in alarm status are shown in the device list and the images are automatically displayed. An audio signal sounds, if this has been configured.

- By right-clicking the remote station icon, you can acknowledge the alarm, delete the alarm or display all cameras that are in alarm status.

Acknowledge alarm	Acknowledges the alarm. The flashing tab becomes static.
Delete alarm	Deletes the remote station from the device list.
Display all alarms	Displays all alarms in the image area. The system automatically selects the best type of display.

Note:

The automatic display of incoming alarms in live and playback mode must be configured. The incoming alarms are saved in the logbook.

3.2 Automatic alarm recording

On the user interface >  or 

Incoming alarms can be recorded automatically (standard) or manually on the recipient. The selection is made in the configuration. In both cases, all cameras that are allocated to the alarm in the device list are recorded. Recording takes place without audio.

The  tab flashes red. An audio signal sounds, if this has been configured.

1. Click on . The cameras or remote stations in alarm status are listed. The audio signal is switched off.

The button for alarm recording  is displayed.

2. Click the  icon if you want to stop alarm recording.

	Alarm recording is stopped. Click the button to start alarm recording.
	Alarm recording is started. Click the button to stop alarm recording.

Note:

- Alarm recording finishes when the alarm is deleted.
- The button for alarm recording is immediately displayed when incoming alarms are automatically displayed (see *Section 3.1.2 Automatic Display of Incoming Alarms*).

3.3 Creating/editing favorites

On the user interface >  or 

Favorites are a number of cameras that are combined to give a better overview, for example cameras 1 to 4 in the 2x 2-image window view are combined as an **Entry area** favorite. Favorites are available in live and playback mode.

Creating a new favorite

1. Select an image display in the display bar (see *Section 2.3.3 Buttons for Image Display*).
2. Using the "Drag and Drop" function, drag a camera from the device list into an image window. Continue doing this until all the cameras you require are in the various image windows.

Note: When selecting a favorite, the live image of the camera is displayed in live mode and the saved image of the camera is displayed in playback mode.

3. Click on . The list of favorites appears.
4. Right-click the device list. Select the **New favorite** command.
5. Enter the name of the favorite in the dialog field and click **OK**. The cameras that you have already placed and the display you have selected are saved with this name and can be called up again.

Calling up a favorite



1. Click on . The favorites which you have already saved are displayed.
2. Double-click the favorite or click it with the right mouse button and select the command **Call up**. The setting for this favorite is displayed in the image area.

Editing a favorite

1. Double-click on the favorite you want to edit.
2. Make the changes (e.g. image partitioning, cameras).
3. Place the mouse cursor on the name of the favorite and right-click. Select the **Save favorite** command.

Editing the name of a favorite

1. Click on the favorite icon.
2. Place the mouse cursor on the name of the favorite and right-click. Select the **Rename** command.
3. Enter the name of the favorite in the dialog field and click **OK**.

Changing the sequence of favorites

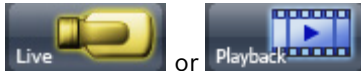
- Hold the left mouse button down and drag the favorite to the required position, then release the mouse button.
The favorite is inserted in this position.

Deleting a favorite

1. Click on the favorite icon.
2. Right-click the name of the favorite. Select the **Delete** command.

3.4

Displaying the logbook



On the user interface >  or  > **System** > **Logbook** menu

This function allows specific local events or events from a remote station to be displayed.

1. In **live mode**:
Select the **System** > **Logbook** menu.
or
Click the  icon under the image area.
In **playback mode**:
Select the **System** > **Logbook** menu.
2. Under **Remote station**, select those remote stations in which you want to look for specific events.
3. Enter the time period in **Time period**.
4. In **Events**, select those events which you want to look for within the time period.
The following events can be selected: start and shutdown operations, log-in and log-out operations, inputs, cameras, system messages, export video procedures, image comparison and configuration operations.
5. Click **Search**. The search results are listed in the lower part of the dialog box. You can sort the events if necessary. It is possible to change the column width. A maximum of 1000 entries are displayed.

6. Click **Print** to print the logbook.

Note: To save the search results, select **Fax** under printer name in the dialog box and select **Print to file**. Confirm with **OK**. The file is saved in C:\Program Files\Bosch Recording Station. It can be opened with the **Windows Picture and Fax Viewer** program.

Sorting the list

Entries are displayed with **Category**, **Type**, **Date** and **Message**. You can also sort by these criteria.

Left-click a field in the title bar, e.g. **Category**. An arrow appears on the right-hand side of the field.



An arrow in the title bar field shows the criterion by which the entries have been classified. The direction of the arrow—upward or downward—shows whether the column has been sorted in ascending or descending order. You can switch between ascending and descending order by clicking with the mouse.

	The column is classified in ascending order. Note: It is only when the Date column is sorted in ascending order that the latest events appear right at the top of the list.
	The column is classified in descending order.

Changing the sequence of columns

Hold down the left mouse button to drag a title bar field to the required position in the title bar. Release the mouse button and the field is inserted in this position.

Changing the column width

Click the dividing line between the columns until a cross with arrow heads pointing left and right appears. Hold the left mouse button down and move this cross to the right or left. The column width is changed.

	Moving the arrowhead to the left or right changes the column width.
---	---

3.5 Starting/Exiting a Camera Round

On the user interface >  or  > 

During the camera round, all cameras selected in the image area are displayed one after the other. The cameras are shown in single image mode.



1. Click on the  icon in the display bar to start the camera round.
2. In **Time interval in seconds**, enter the time after which the system must switch from one camera to the next.
3. Click **OK**. The camera round is started.
4. To exit the camera round, click on the  icon again.

3.6 Logging Off/Changing User

On the user interface >  or  > **System** > **Log off/Change user** menu

1. Select the **System** > **Log off/Change user** menu.
2. Enter the name and password of the new user.
3. Click **OK**.

3.7 Filtering the event list

On the user interface >  >  icon

The 100 most recent events are listed in an event list in the event field. This list includes events that have been received since the last login.

If you only want to display specific events, you can filter the event list using these criteria.

Category	Type	Date	Message
Information	Export	8/17/2010 11:06:50 AM	User: a, Recorder: DIBOS8-115, Camera: Kamera 02, from: 8/17/2010.
Information	Export	8/17/2010 11:06:50 AM	User: a, Recorder: DIBOS8-115, Camera: Kamera 01, from: 8/17/2010.
Information	Export	8/17/2010 11:06:50 AM	User: a, Recorder: DIBLAN, Camera: VP V1 192.168.1.140, from: 8/17/2010 11:06:50 AM
Information	Export	8/17/2010 11:06:50 AM	User: a, Recorder: DIBLAN, Camera: AXIS 211M, from: 8/17/2010 11:06:50 AM
Information	Export	8/17/2010 11:06:50 AM	User: a, Recorder: THINKCENTRE, Camera: VJ 8008 192.168.1.70 [5]
Information	Export	8/17/2010 11:06:50 AM	User: a, Recorder: THINKCENTRE, Camera: VJ 8008 192.168.1.70 [4]
Information	Export	8/17/2010 11:06:50 AM	User: a, Recorder: THINKCENTRE, Camera: VJ 8008 192.168.1.70 [3]
Information	Export	8/17/2010 11:06:50 AM	User: a, Recorder: THINKCENTRE, Camera: VJ 8008 192.168.1.70 [2]
Information	Export	8/17/2010 11:06:50 AM	User: a, Recorder: THINKCENTRE, Camera: VJ 8008 192.168.1.70 [1]

1. Click the  icon under the image area. A dialog box opens.
2. Select the criteria.
3. Click **OK**.

Sorting the list

Entries are displayed with **Category**, **Type**, **Date** and **Message**. You can also sort by these criteria.

Left-click a field in the title bar, e.g. **Category**. An arrow appears on the right-hand side of the field.

Category	Type	Date	Message
----------	------	------	---------

An arrow in the title bar field shows the criterion by which the entries have been classified. The direction of the arrow—upward or downward—shows whether the column has been sorted

in ascending or descending order. You can switch between ascending and descending order by clicking with the mouse.

	The column is classified in ascending order. Note: It is only when the Date column is sorted in ascending order that the latest events appear right at the top of the list.
	The column is classified in descending order.

Changing the sequence of columns

Hold down the left mouse button to drag a title bar field to the required position in the title bar. Release the mouse button and the field is inserted in this position.

Changing the column width

Click the dividing line between the columns until a cross with arrow heads pointing left and right appears. Hold the left mouse button down and move this cross to the right or left. The column width is changed.

	Moving the arrowhead to the left or right changes the column width.
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3.8 Zooming/Controlling Dome Cameras and Pan/Tilt Cameras



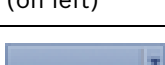
On the user interface >

You can zoom and control the cameras in the control and status field, as well as directly in the image window.

Controlling/zooming in control and status field

1. Select the image window of the camera which you want to zoom or control. The image window now appears with a yellow border.
2. Click on the  tab in the control and status field. The control field for dome cameras and pan/tilt cameras is displayed.
3. Click on the various control elements in order to zoom or pan the camera.



	Pan the camera to the left/right.
	Pan the camera up/down.
	Pans the camera in all directions. Move the mouser cursor to the icon and drag it in the direction you would like to pan the camera while holding down the left mouse button.
	Reduces (tele)/enlarges (wide angle) the image angle
	Focus far/focus near (sets the image so it is in focus)
	Close iris/open iris
	Sets the pan, tilt and zoom speed.
 (on left)	Camera positions which have been set can be called up. To do so, click the down arrow and make your selection.
 (on right)	Camera commands which have been saved can be called up. To do so, click the down arrow and make your selection.

Controlling/zooming cameras in the image window

1. Move the mouse cursor into the image window of a dome or pan/tilt camera. This changes the appearance of the mouse cursor.

	Pan the camera in the relevant direction using the arrow keys. To do so, hold the left mouse button down.	
		Pan to left/right. etc. Note: The closer you click to the image edge the faster the camera pans or tilts.
		Enlarges (wide angle)/reduces (tele) the image angle.

2. Click with the right mouse button on the image window in order to call up the following commands:
 - Focus near/ far
 - Close iris/open iris
 - Retrieve prepositions
 - Retrieve macros saved

Note:

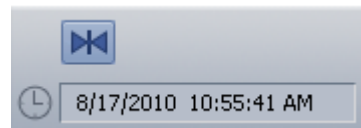
The digital zoom function is not available for dome or pan/tilt cameras.

3.9 Searching for date and time



On the user interface >

The saved images can be searched according to date and time.



Proceed as follows:

1. Using the mouse cursor, select the date and time you want to edit and make the necessary entries.
2. Press **Enter**.
The images are displayed in the image area.

3.10 Searching for events



On the user interface > Playback >

Using the arrow keys, jump to the next or previous saved event from the cameras displayed.



Proceed as follows:

1. Click the down arrow beside the selection field and select the event. The events that can be selected are alarm, motion, video loss, continuous recording and protected.



2. Click the  arrow to jump to the previous event.
or



Click the  arrow to jump to the next event.

The images are displayed in the image area.

Note:

With the alarm, video loss, continuous recording and protected events, the system jumps to the previous or next event. With the motion event, the system jumps to the next or previous image with motion information.

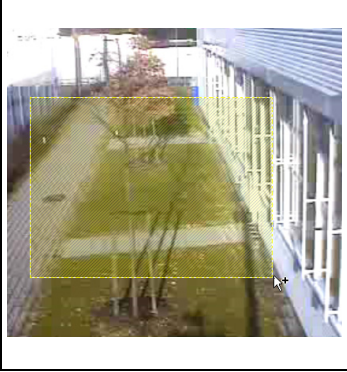
3.11 Searching for motion



On the user interface > Playback > **Selected image window** > **Search for motion** menu

You can check the image in the selected image window for motion. It is only possible to search for motion with locally connected cameras and not with IP cameras.

1. Select the image window of the camera whose images you want to check for motion. The image window now appears with a yellow border.
2. Using the hairline, highlight the time period on the timeline.
3. Select the **Selected image window** > **Search for motion** menu or click the  icon beneath the image area.
4. The current hairline value in the timeline for the start and end time and date is copied to the **from** and **to** fields. If you want to change the time period, click the down arrow beside the **from** and **to** fields and select the new date and time.
5. Select **Display grid**. A grid is placed above the image. Every cell in the grid can be selected for search purposes.
6. Select those cells you want to check for motion. To select an area, left-click or drag the cursor over an area while holding down the left mouse button.

	Selected areas: – Left-click or – Hold the left mouse button down and drag an area. A plus sign appears beside the mouse cursor to show that the area has been selected and will be assessed during the search. Note: Areas selected for the search are shown shaded.
	Non-selected areas: – Right-click or – Hold the right mouse button down and drag an area. A minus sign appears beside the mouse cursor to show that the area has not been selected and will not be assessed during the search. Note: Areas excluded from the search are shown unshaded.

7. Click **OK**. The search results are listed in the timeline area.

3.12

Searching for additional data

On the user interface >  > **Recording** > **Search for additional data of displayed cameras** menu

or

On the user interface >  > **Recording** > **Search for additional data from all cameras** menu

You can search all the cameras displayed in the image area or all connected cameras for additional data here.

Searching for additional data:

1. Using the hairline, highlight the time period on the timeline.
2. Select the **Recording** > **Search for additional data of displayed cameras** or **Recording** >

Search for additional data from all cameras menu or click the  icon below the image areas.

3. The current hairline value in the timeline for the start and end time and date is copied to the **from** and **to** fields. If you want to change the time period, click the down arrow beside the **from** and **to** fields and select the new date and time.
4. Select the criteria you would like to use for the search.
5. Click **OK**. The search results are listed.

Note:

Connected ATMs and foyer card readers transfer fixed data to the Bosch Recording Station via an RS 232 interface. It is also possible to configure freely defined data via virtual detectors.

Saved additional data is:

- ATM data (depending on the ATM protocol)
 - Bank sort code
 - Amount
 - Date/time
 - Transaction number
 - Account number (or credit card number)
- Foyer card reader data
 - Bank sort code
 - Account number (or credit card number)
- POS server data/ATM/POS bridge data

The individual data fields of the data stream can be saved as additional data, e.g. date, time, unit number.

- Freely definable data
This data is specified in the configuration.

3.13 Authenticating images from several cameras



On the user interface > **Playback** > **Recording** > **Authenticate** menu

The recorded images can be checked for changes. Checks are carried out on the images of the cameras displayed in the image area.

1. Using the hairline, highlight the time period on the timeline.
2. Select the **Recording** > **Authenticate video** menu.
3. The current hairline value in the timeline for the start and end time and date is copied to the **from** and **to** fields. If you want to change the time period, click the down arrow beside the **from** and **to** fields and select the new date and time.
4. Click **Start** to start authentication.

3.14 Authenticating a single image



On the user interface > **Playback** > **Selected image window** > **Authenticate** menu

The image in the selected image window is then checked to see whether it has been changed. Only the selected image is checked.

1. Select the image window of the camera whose image you want to check.
2. Click the **Selected image window** > **Authenticate** menu. A message shows you whether the image has been changed or not.

3.15 Exporting Files



On the user interface >  >  icon

Exports video and audio data to the following drives:

- A CD/DVD drive (local or on a remote station)
- A network drive (local or on a remote station)
- A USB drive (local or on a remote station)

The files are exported in Bosch Recording Station or ASF format.

When data is exported in Bosch Recording Station format, the Bosch Export Viewer can also be saved. Administrator rights are necessary for installing the Bosch Export Viewer. Only user rights are necessary for playback. The Bosch Export Viewer can run on all Windows XP and Windows 7 systems.

Data which has been exported in ASF format can be played with default software, e.g. Windows Media Player.

Individual search results or selected time periods can be exported.

Exporting the data of a time period

The video and audio data of the displayed cameras can be exported for a time period which has been selected in the timeline area.

1. Use the cursor to select the time period on the timeline (see *Section 2.8.2 Camera list with timeline*).
2. Click the  icon. The export dialog box opens.
3. In **Data carriers**, select the medium to which you want to save the time period.
4. Specify the **Format** of the files to be exported. You may also have to specify the **Quality** of the files.
5. The current hairline value in the timeline for the start and end time and date is copied to the **from** and **to** fields. If you want to change the time period, click the down arrow beside the **from** and **to** fields and select the new date and time.
6. Click **OK**. The files are exported.

Exporting single search entry data

It is possible to export the data from single search entries. If you want to export several entries, you must export them one by one.

1. Select an entry in the search result with the left mouse button.
2. Click the  icon. The export dialog box opens.
3. In **Data carriers**, select the medium to which you want to save the time period.
4. Specify the **Format** of the files to be exported. You may also have to specify the **Quality** of the files.
5. The start and end time and date of the selected entry are copied to the **from** and **to** fields. The pre-alarm and post-alarm time of the event is contained in this time. If you want to change the time period, click the down arrow beside the **from** and **to** fields and select the new date and time.
6. Click **OK**. The files are exported.

3.16 Showing Exported Files



On the user interface > **Playback** > **Recording** > **Load exported video** menu
Exported audio and video files can be shown in order to display their saved images.

1. Select the **Recording** > **Load exported video** menu.
2. Select the drive on which the exported files are located. The files are displayed in the list field beneath the drive.
3. In the list box, click on the file whose images you want to view.
4. Click **OK**.



An additional tab is added to the device list and the names of the exported cameras are displayed.

5. Double-clicking on the camera icon shows the image in the selected window of the image area. The image can be displayed in any window at all using the "Drag and drop" function. If several cameras are assigned to one remote station, you must first double-click the remote station. Only then are the cameras listed and can be selected by double-clicking.

Note:

- In the timeline, the time is shown for the time zone that applies to the system into which the data is being imported.
- Select the **Recording** > **Hide exported video** menu to remove the exported files from the display.

3.17 Protect video



On the user interface > **Playback** > **Recording** > **Protect video** menu

This function allows you to protect the video and audio data of the displayed cameras against being automatically overwritten.

1. Use the cursor to select the time period on the timeline (see *Section 2.8.2 Camera list with timeline*).
2. Select the **Recording** > **Protect video** menu.
3. The date currently shown in the time period's hairline is copied to the **from** and **to** fields. If you want to change the time period, click the down arrow beside the **from** and **to** fields and select the new date.

Note: The data can be protected for one day or for a time period with any number of days. Data protection begins at 00:00 and ends at 24:00 for any given day.

4. Click **Start**. The protected data is shown shaded in the timeline area.

3.18 Recording: remove protection



On the user interface > **Playback** > **Recording** > **Recording: remove protection** menu

This function allows you to remove the automatic overwrite protection for the video and audio data of displayed cameras.

The protected data is shown shaded in the timeline area.

1. Use the cursor to select the time period on the timeline (see *Section 2.8.2 Camera list with timeline*).
2. Select the **Recording** > **Recording: remove protection** menu.
3. The date currently shown in the time period's hairline is copied to the **from** and **to** fields. If you want to change the time period, click the down arrow beside the **from** and **to** fields and select the new date.

Note: Data protection can be removed for one day or for a time period with any number of days. Image protection is removed at 00:00 and reinstated at 24:00 for any given day.

4. Click **Start**. The shading is removed from the timeline area.

3.19 Delete video

Recording > **Delete video** menu

You can use this function to delete images from the cameras displayed.

1. Use the cursor to select the time period on the timeline (see *Section 2.8.2 Camera list with timeline*).
2. Select the **Recording** > **Delete video** menu.
3. Select the time period:

Delete images in time period	Only the images in this time period are deleted.
Delete older images up to and including	All images which are older than the final date are deleted.

4. The date currently shown in the time period's hairline is copied to the **from** and **to** fields. If you want to change the time period, click the down arrow beside the **from** and **to** fields and select the new date.

Note: Images are deleted from one day or from a time period with any number of days. Image deletion begins at 00:00 and ends at 24:00 for any given day.

5. Click **Start**.

3.20 Performing image comparison

On the local system: **System** menu > **Image comparison**

On the remote station: right click remote station > **Image comparison...**



NOTICE!

Before an image comparison can be performed, a comparison image must be set up in the configuration for each camera.

Proceed as follows for an image comparison:

1. Under **Camera**, select the cameras for which you want to compare images.
2. Click **Retrieve images**. The system retrieves the current image (still) and the stored comparison image for each camera.

The status of the automatic reference image check is also displayed.

Note:

The system detects tampering if the current still does not match the stored reference image. The prerequisite for the automatic reference image check is that the reference image is configured in the camera and the reference image check is activated in the BRS configuration.

3. Compare the current still for the camera with the comparison image.
4. After the comparison, under **Evaluation**, click the option that corresponds to the result of your image comparison, e.g. that the image passed the image comparison.

Note:

You have to evaluate the image comparison. The image comparison cannot be completed without an evaluation.

5. Enter further information under **Comments** if necessary.
6. Click **Next camera** to perform the image comparison for the next camera selected.
7. Click **Create report**. The system creates an HTML page with the result of the image comparison.

4 The Icon Overview

You will find the following icons in live and playback mode:

	Network dome camera: live images are only displayed (not saved)
	Network dome camera: poor image quality (too light, too dark, noisy), reference image check failed
	Network dome camera: live images are displayed and saved
	Network dome camera: no camera signal from the dome camera on the network module
	Network camera: connection has been established
	Network camera: poor image quality (too light, too dark, noisy), reference image check failed
	Network camera is recording
	Network camera: no camera signal
	Network remote station DiBos 8: connection has been established
	Network remote station DiBos 8: connection is being established/connection cannot be established
	Network remote station DiBos 8: connection has been disconnected
	Network remote station DiBos 7: connection has been established
	Network remote station DiBos 7: connection is being established/connection cannot be established
	Network remote station DiBos 7: connection has been disconnected
	RAS remote station DiBos 8: connection has been established
	RAS remote station DiBos 8: connection is being established/connection cannot be established
	RAS remote station DiBos 8: connection has been disconnected
	RAS remote station DiBos 7: connection has been established
	RAS remote station DiBos 7: connection is being established/connection cannot be established
	RAS remote station DiBos 7: connection has been disconnected

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